

CLAIMS

1. (Currently Amended) A method for manufacturing a rotatable cutting blade assembly for an extruder, the method comprising the steps of:

selecting a substantially circular cutting blade holder made of a first material having two spaced apart faces and having a plurality of cutting blade channels around the outer periphery of the cutting blade holder, the channels forming an angle with respect to a plane defined by the faces of the cutting blade holder;

~~inserting brazing a first end of blade made piece of a second material adaptable for use as a cutting blade in each of said cutting blade channels while an opposite second end of the blade is left free-floating, wherein the piece of second material having blade has sufficient height to extend at least one edge of the cutting blade beyond the plane defined by at least one face of the cutting blade holder, and wherein the blade has a length such that the majority of the length extends beyond the outer periphery of the cutting blade holder;~~

~~permanently bonding each said piece of second material to said cutting blade holder;~~

~~sharpening at least a portion of at least two opposite edges of the cutting blade; and~~

forming a first cutting plane and an opposite second cutting plane, each cutting plane being generally parallel to the plane defined by at least one face of the cutting blade holder for cutting extruded materials, wherein the cutting direction of the first cutting plane is opposite of the cutting direction of the second cutting plane.

2. (Original) The method of Claim 1 wherein said cutting blade holder is made of a material that is responsive to an inductive heating process.

3. (Cancelled).

4. (Original) The method of Claim 1 wherein said cutting blade holder is molded.

5. (Cancelled).

6. (Original) The method of Claim 1 where in said second material is harder than said first material.

7. (Cancelled)

8. (Currently Amended) The method of Claim 1 wherein the step of bonding-brazing further comprises the steps of:

brazing with a solder along substantially the entire length of said cutter blade channel, and

heating to a temperature that will bond said cutting blade holder, said piece of the second material, and said solder together.

9. (Currently Amended) A method for manufacturing a rotatable cutting blade assembly for an extruder, the method comprising the steps of:

selecting a substantially circular cutting blade holder made of a first material having two spaced apart faces and having at least one cutting blade channel around the periphery of the cutting blade holder, the channel forming an angle with respect to a plane defined by the faces of the cutting blade holder;

inserting-brazing a first end of blade made piece of a second material adaptable for use as a cutting blade in each of said cutting blade channels while an opposite second end of the blade is left free-floating, wherein the piece of second material having blade has sufficient height to extend at least one edge of the cutting blade beyond the plane defined by at least one face of the cutting blade holder, and wherein the blade has a length such that the majority of the length extends beyond the outer periphery of the cutting blade holder;

~~permanently bonding said piece of the second material to said cutting blade holder, and~~
sharpening at least a portion of at least two opposite edges of the piece of second material;
and

forming a first cutting plane and an opposite second cutting plane, each cutting plane
being generally parallel to the plane defined by at least one face of the cutting blade holder for
cutting extruded materials, wherein the cutting direction of the first cutting plane is opposite of
the cutting direction of the second cutting plane.

10. (Original) The method of Claim 9 wherein said cutting blade holder is made of a
material that is responsive to an inductive heating process.

11. (Cancelled)

12. (Original) The method of Claim 9 wherein said cutting blade holder is molded.

13. (Cancelled)

14. (Original) The method of Claim 9 where in said second material is harder than
said first material.

15. (Cancelled)

16. (Currently Amended) The method of Claim 9 wherein the step of ~~bonding~~ brazing
further comprises the steps of:

brazing with a solder along substantially the entire length of said cutter blade channel,
and

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heating to a temperature that will bond said cutting blade holder, said piece of the second material, and said solder together.

17-40. (Cancelled)

41. (Previously Presented) The method of Claim 1 wherein the first material is carbon steel.

42. (Previously Presented) The method of Claim 9 wherein the first material is carbon steel.

43. (Previously Presented) The method of Claim 1 wherein the at least a portion of at least one edge of the cutting blade is sharpened such that the sharpened edge is parallel to the plane defined by the face of the cutting blade holder.

44. (Previously Presented) The method of Claim 9 wherein the at least a portion of at least one edge of the piece of second material is sharpened such that the sharpened edge is parallel to the plane defined by the face of the cutting blade holder.